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(54) Title: HYDROGEN PERMEABLE MEMBRANE, FUEL CELL AND HYDROGEN EXTRACTING APPARATUS EQUIPPED WITH THE HYDROGEN PERMEABLE MEMBRANE, AND METHOD OF MANUFACTURING THE HYDROGEN PERMEABLE MEMBRANE

(57) Abstract: A hydrogen permeable membrane (10) for selectively allowing hydrogen to permeate therethrough includes a metal base layer (12) containing vanadium (V), a metal coating layer (16) containing palladium (Pd), and an intermediate layer (14) that is formed between the metal base layer (12) and the metal coating layer (16) and made of a metal having a higher melting point than the metal base layer (12) and the metal coating layer (16) and possessing hydrogen permeability.